

jp61015846/pn

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ACCESSION NUMBER: 1986-008771 [02] WPINDEX
DOC. NO. CPI: C1986-003704 [21]
TITLE: Amphipathic block copolymer self dispersible in water

contg. biodegradable or hydrolysable hydrophobic
component, useful for making sustained release drug
delivery formulations

DERWENT CLASS: A96; B07
INVENTOR: CHURCHILL J R; HUTCHINSON F; HUTCHINSON F G
PATENT ASSIGNEE: (ICIL-C) IMPERIAL CHEM IND PLC
COUNTRY COUNT: 22

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
EP 166596	A	19860102	(198602)*	EN	21[0]	
AU 8543150	A	19860102	(198608)	EN		
JP 61015846	A	19860123	(198610)	JA		
NO 8502547	A	19860120	(198610)	NO		
ZA 8504188	A	19860102	(198613)	EN		
FI 8502374	A	19860228	(198615)	FI		
PT 80710	A	19860317	(198615)	PT		
DK 8502878	A	19851227	(198618)	DA		
HU 38261	T	19860528	(198626)	HU		
ES 8609374	A	19861216	(198707)	ES		
ES 8704726	A	19870701	(198730)	ES		
ES 8705221	A	19870716	(198733)	ES		
ES 8705222	A	19870716	(198733)	ES		
US 4745160	A	19880517	(198822)	EN		C08L005-02
CA 1247271	A	19881220	(198904)	EN		
IL 75407	A	19881130	(198910)	EN		
US 4877606	A	19891031	(199002)	EN		A61K047-00
NO 9001686	A	19900618	(199030)	NO		
EP 166596	B	19910313	(199111)	EN		C08G063-66
DE 3582088	G	19910418	(199117)	DE		
NO 175135	B	19940530	(199425)	NO		A61K047-30
JP 07069929	A	19950314	(199519)	JA	8[1]	A61K047-30
JP 07069930	A	19950314	(199519)	JA	8[1]	A61K047-30
JP 07051517	B2	19950605	(199527)	JA	6	A61K047-30
JP 07106987	B2	19951115	(199550)	JA	7[0]	A61K047-30
JP 07106988	B2	19951115	(199550)	JA	7[0]	A61K047-30
DK 174804	B	20031124	(200401)	DA		C08F293-00

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 166596 A		EP 1985-304489	19850624
ZA 8504188 A		ZA 1985-4188	19850603
US 4745160 A		US 1985-747173	19850621
DK 174804 B		DK 1985-2878	19850625
JP 61015846 A		***JP 1985-137120	19850625***
JP 07069929 A Div Ex		JP 1985-137120	19850625
JP 07069930 A Div Ex		JP 1985-137120	19850625
JP 07051517 B2		JP 1985-137120	19850625
JP 07106987 B2 Div Ex		JP 1985-137120	19850625

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JP 07106988 B2 Div Ex
 NO 175135 B Div Ex
 ES 8609374 A
 ES 8704726 A
 ES 8705221 A
 ES 8705222 A
 US 4877606 A
 NO 175135 B
 JP 07069929 A
 JP 07106987 B2
 JP 07069930 A
 JP 07106988 B2

JP 1985-137120 19850625
 NO 1985-2547 19850625
 ES 1985-544580 19850626
 ES 1986-551370 19860129
 ES 1986-551371 19860129
 ES 1986-551372 19860129
 US 1988-145116 19880119
 NO 1990-1686 19900417
 JP 1994-132220 19850625
 JP 1994-132220 19850625
 JP 1994-132221 19850625
 JP 1994-132221 19850625

FILING DETAILS:

PATENT NO	KIND	PATENT NO
DK 174804 B	Previous Publ	DK 8502878 A
JP 07106987 B2	Based on	JP 07069929 A
JP 07106988 B2	Based on	JP 07069930 A
JP 07051517 B2	Based on	JP 61015846 A
NO 175135 B	Previous Publ	NO 9001686 A

PRIORITY APPLN. INFO: GB 1984-16234 19840626

INT. PATENT CLASSIF.:

MAIN: A61K047-30
 IPC RECLASSIF.: A61K [I,S]; A61K0047-00 [I,A]; A61K0047-00 [I,C];
 A61K0047-30 [I,A]; A61K0047-30 [I,A]; A61K0047-30
 [I,C];
 A61K0047-30 [I,C]; A61K0047-34 [I,A]; A61K0047-34
 [I,C];
 A61K0009-10 [I,A]; A61K0009-10 [I,C]; A61K0009-107
 [I,A];
 A61K0009-107 [I,C]; A61K0009-14 [I,A]; A61K0009-14
 [I,C];
 A61K0009-22 [I,A]; A61K0009-22 [I,C]; A61K0009-51
 [I,A];
 A61K0009-51 [I,C]; C08F0285-00 [I,A]; C08F0285-00
 [I,C];
 C08F0287-00 [I,A]; C08F0287-00 [I,C]; C08G0063-00
 [I,C];
 C08G0063-08 [I,A]; C08G0063-664 [I,A]

BASIC ABSTRACT:

EP 166596 A UPAB: 20060104

A pharmaceutically or veterinarily acceptable, amphipathic, non-crosslinked, linear, branched or graft block copolymer (I), has wt. average mol. wt. at least 1000 and is self-dispersible in water to form

a

stable dispersion. The hydrophobic component (A), and opt. also the hydrophilic component (B) is biodegradable or hydrolytically unstable under normal physiological conditions. Pref. (I) has a large proportion of (B):(A) or the wt. average mol. wt. of (A) is below 5000.

Also new are solid, powder materials contg. up to 99 wt.% of a drug and the balance (I).

USE/ADVANTAGE - The (I)-drug compsns. are useful as sustained release formulations, partic. for drugs which are sensitive to organic solvents, non-neutral pH or elevated temp. The particle size of the dispersion can be controlled to provide organ-targeted drug delivery.

MANUAL CODE:

CPI: A09-A01; A12-V01; B04-C03; B11-C04A; B12-M10A; B12-M11G

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